

A-869

Total Pages : 3

Roll No. -----

MBOT-606

Biostatistics and Ecology

M.Sc. Botany (MSCBOT)

4th Semester Examination 2024 (June)

Time: 2:00 hrs

Max. Marks: 35

Note : This paper is of Thirty Five (35) marks divided into Two (02) Section A and B. Attempt the questions contained in these sections according to the detailed given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

P.T.O.

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Section-A (Long-Answer-Type Questions)

Note : Section 'A' contains Five (05) long-answer-type questions of Nine and Half ($9\frac{1}{2}$) marks each. Learners are required to answer any Two (02) questions only.

[$2 \times 9\frac{1}{2} = 19$]

- Q.1. Give a detailed account of biodiversity concept. Discuss in-situ and ex-situ conservation with examples.
- Q.2. Define Ecosystem. Describe the structure and types of Ecosystem.
- Q.3. Write an explanatory note on application of computer in biological science.
- Q.4. What do you mean by environmental pollution? Write an explanatory note on air and noise pollution.
- Q.5. Describe the normal biological spectrum of Raunkiaer's system of classification based on the position of the buds.

Section-B (Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only.

[$4 \times 4 = 16$]

- Q.1. Write a brief note on Greenhouse gases and their sources.
- Q.2. Write a brief note on Ozone layer and its significance.
- Q.3. Differentiate between Local Area Network (LAN) and Wide Area Network (WAN).
- Q.4. Write short notes on any two of the following:
- a. Threatened species
 - b. Eutrophication
 - c. Standard Deviation
- Q.5. Give a brief note on scope and importance of Variance.
- Q.6. Describe temperate mountain forests in brief with particular reference to India.
- Q.7. What do you understand by climate change? Discuss in brief about the consequences of climate change.
- Q.8. Discuss in brief about the characteristics of Community ecology.
